Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and Drains at Basavalingappa badavane and Rajiv Gandhinagara and Chikkabettahalli in ward no-03 of Yelahanka Satellite Town Sub Division

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead, 8KM	77.48							
	Total	**215.28**							
		Cum							
	RCC Drain								
	Basavalingappanagar								
	Main rd(Dead End)		1	30.00	1.00	0.90	27.00		
	Chikbettahalli Colony								
	Cross rd-4		1	84.00	1.00	0.90	75.60		
	Adityanagr								
	13th Main Rd		2	250.00	1.00	0.90	450.00		
	Doddabettahalli								
	Swd Rd		2	245.00	1.10	0.90	485.10		
			1	78.00	1.00	0.90	70.20		
	Govt school Back side		1	43.00	1.10	1.00	47.30		
				Area					
	Rain Water Harvesting pits		10	0.31		1.80	5.58		
	Culvert		9	6.00	1.50	0.90	72.90		
							1233.68	**215.28**	**265586.63**
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00		Area					
	a) 40mm Jelly	Cum	10	0.31		0.40	**1.24**	**1901**	**2,357.24**
	Data rate	1901.00							
	b) 20mm Jelly	Cum	10	0.31		0.40	**1.24**	**1901**	**2,357.24**
	Data rate	2651.00							
	c) Coarse sand.	Cum	10	0.31		0.30	**0.93**	**2651**	**2,465.43**
	Data rate	2651.00							
	d) Fine Sand	Cum	10	0.31		0.20	**0.62**	**2651**	**1,643.62**
	Data rate	1901.00							
	e) 12.5mm chips	Cum	10	0.31		0.30	**0.93**	**1901**	**1,767.93**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
		Rmt							
	0.63m dia HDPE Perforated		10	1.80			18.00		
							18.00	**10822.32**	**194801.76**
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03		Area					
		Sqm	10	0.31			**3.10**	**71.03**	**220.19**
5	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	Basic rate	5115.00							
	Area Weightage 6%	306.90							
	Total	**5421.90**							
		Cum							
	RCC Drain								
	Basavalingappanagar								
	Main rd(Dead End)		1	30.00	1.00	0.15	4.50		
	Chikbettahalli Colony								
	Cross rd-4		1	84.00	1.00	0.15	12.60		
	Adityanagr								
	13th Main Rd		2	245.00	1.00	0.15	73.50		
	Doddabettahalli								
	Swd Rd		2	250.00	1.10	0.15	82.50		
			1	78.00	1.00	0.15	11.70		
	Govt school Back side		1	43.00	1.10	0.15	7.10		
	C.C Road								
	New Formation								
	Chikbettahalli Colony								
	Cross rd-5		1	37.00	3.40	0.15	18.87		
	Adityanagr								
	14th Main Rd		1	290.00	3.80	0.15	165.30		
	Dismantling								
	Basavalingappanagar								
	Main rd(Dead end)		1	65.00	6.00	0.15	58.50		
	Chikbettahalli Colony								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Left side								
	Cross rd-1		1	47.00	4.00	0.15	28.20		
	Cross rd-2		1	35.00	3.50	0.15	18.38		
	Cross rd-3		1	36.00	4.20	0.15	22.68		
	Cross rd-4		1	84.00	3.50	0.15	44.10		
	Right side								
	Cross rd-1		1	43.00	4.50	0.15	29.03		
	Cross rd-2		1	35.00	3.20	0.15	16.80		
	Masid Rd		1	212.00	4.30	0.15	136.74		
	For Kerb Stone								
	Doddabettahalli								
	Swd Rd		2	245.00	0.20	0.10	9.80		
	Connecting rd		1	40.00	0.20	0.10	0.80		
	3rd Cross rd		2	160.00	0.20	0.10	6.40		
	Culvert		9	6.00	1.50	0.15	12.15		
							759.64	**5421.90**	**4118665.01**
6	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	**7070.20**							
		Cum							
	RCC Drain								
	Raft								
	Basavalingappanagar								
	Main rd(Dead End)		1	30.00	0.80	0.15	3.60		
	Chikbettahalli Colony								
	Cross rd-4		1	84.00	0.80	0.15	10.08		
	Adityanagr								
	13th Main Rd		2	250.00	0.80	0.15	60.00		
	Doddabettahalli								
	Swd Rd		2	245.00	0.90	0.15	66.15		
			1	78.00	0.80	0.15	9.36		
	Govt school Back side		1	43.00	0.90	0.15	5.81		
	Wall								
	Basavalingappanagar								
	Main rd(Dead End)		2	30.00	0.15	0.60	5.40		
	Chikbettahalli Colony								
	Cross rd-4		2	84.00	0.15	0.60	15.12		
	Adityanagr								
	13th Main Rd		4	250.00	0.15	0.60	90.00		
	Doddabettahalli								
	Swd Rd		4	245.00	0.15	0.60	88.20		
			2	78.00	0.15	0.60	14.04		
	Govt school Back side		2	43.00	0.15	0.85	10.97		
							378.72		
	Culvert Raft		9	6.00	1.20	0.20	12.96		
	Culvert Wall		18	6.00	0.23	0.60	14.90		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
							27.86		
							406.58	**7070.20**	**2874630.20**
7	KSRRB - M2300-14: **Providing TMT steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	69804.00							
	Area Weightage 6%	4188.24							
	Total	**73992.24**							
		Tn							
	RCC Drain								
	For Drain 60kg/cum			378.72	0.06		22.72		
	For Culvert 90kg/cum			27.86	0.09		2.51		
							25.23	**73992.24**	**1866895.25**
8	Providing and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	2337.00							
		Sqm							
	RCC Drain								
	Basavalingappanagar								
	Main rd(Dead End)		1	30.00	0.75		22.50		
	Chikbettahalli Colony								
	Cross rd-4		1	84.00	0.75		63.00		
	Adityanagr								
	13th Main Rd		2	250.00	0.75		375.00		
	Doddabettahalli								
	Swd Rd		2	245.00	0.90		441.00		
			1	78.00	0.75		58.50		
	Govt school Back side		1	43.00	0.90		38.70		
							998.70	**2337.00**	**2333961.90**
9	Providing and fixing **RCC precast cover slab of 250mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	5418.00							
		Sqm							
	Culvert		9	6.00	1.20		64.80		
							64.80	**5418.00**	**351086.40**
10	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
		Nos							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Doddabettahalli								
	Swd Rd		2	245.00			490.00		
	Connecting rd		1	40.00			40.00		
	3rd Cross rd		2	160.00			320.00		
							850.00		
							1889.00	**432.48**	**816954.72**
11	**Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
		Sqm							
	For Kerb Stone								
	Doddabettahalli								
	Swd Rd		2	245.00		0.30	147.00		
	Connecting rd		1	40.00		0.30	12.00		
	3rd Cross rd		2	160.00		0.30	96.00		
							255.00	**84.80**	**21,624.00**
12	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143,KPWD SR 2018-19)								
	Basic rate	41.00							
	Area Weightage 6%	2.46							
	8km Lead	20.48							
	Total	**63.94**							
		Cum							
	New Formation								
	Basavalingappanagar								
	Subbana Garden Rd								
	1st Main rd		1	128.00	8.00	0.25	256.00		
	At culvert		1	52.00	9.80	0.25	127.40		
	Main rd(Upto Culvert)		1	127.00	9.60	0.25	304.80		
	Doddabettahalli								
	Cross rd-1		1	23.00	5.40	0.20	24.84		
	Overlay cut portion								
	Basavalingappanagar								
	Subbana Garden Rd								
	2nd Main rd		2	173.00	2.20	0.20	152.24		
	Chikbettahalli Colony								
	Main rd		2	184.00	1.80	0.20	132.48		
	Doddabettahalli								
	3rd Cross rd		2	186.00	1.20	0.20	89.28		
	C.C Road								
	New Formation								
	Chikbettahalli Colony								
	Cross rd-5		1	37.00	3.40	0.20	25.16		
	Adityanagr								
	14th Main Rd		1	290.00	3.80	0.20	220.40		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
13	KSRRB 300-46. **Scarifying by mechanical means** stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.(P.No-146,I No-19.52)						**1332.60**	**63.94**	**85,206.44**
	Basic rate	39.00							
	Area Weightage 6%	2.34							
	Total	**41.34**							
		Sqm							
	Scarifying Roads								
	Chikbettahalli Colony								
	Adityanagr								
	Connecting rd		1	55.00	4.50		247.50		
	Water Tank Rd(13th Main)		1	330.00	5.80		1914.00		
	Doddabettahalli								
	Connecting rd		1	80.00	6.10		488.00		
	Ambhabhavani Temple Rd		1	430.00	5.70		2451.00		
	Cross rd-2		1	16.00	6.00		96.00		
	Swd Rd		1	360.00	5.20		1872.00		
							7068.50	**41.34**	**292211.79**
14	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	**1994.92**							
		Cum							
	New Formation								
	Basavalingappanagar								
	Subbana Garden Rd								
	1st Main rd		1	128.00	8.00	0.15	153.60		
	At culvert		1	52.00	9.80	0.15	76.44		
	Main rd(Upto Culvert)		1	127.00	9.60	0.15	182.88		
	Doddabettahalli								
	Cross rd-1		1	23.00	5.40	0.15	18.63		
	Overlay cut portion								
	Basavalingappanagar								
	Subbana Garden Rd								
	2nd Main rd		2	173.00	2.20	0.15	114.18		
	Chikbettahalli Colony								
	Main rd		2	184.00	1.80	0.15	99.36		
	Doddabettahalli								
	3rd Cross rd		2	186.00	1.20	0.15	66.96		
	Scarifying Roads								
	Chikbettahalli Colony								
	Masid Rd		2	212.00	1.50	0.15	95.40		
	Adityanagr								
	Connecting rd		2	55.00	1.00	0.15	16.50		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Water Tank Rd(13th Main)		2	330.00	1.50	0.15	148.50		
	Doddabettahalli								
	Connecting rd		2	80.00	1.50	0.15	36.00		
	Ambhabhavani Temple Rd		2	430.00	1.50	0.15	193.50		
	Cross rd-2		2	16.00	1.00	0.15	4.80		
	Swd Rd		2	360.00	1.30	0.15	140.40		
	C.C Road cut portion								
	Basavalingappanagar								
	Main rd(Dead end)		1	65.00	1.00	0.15	9.75		
	Chikbettahalli Colony								
	Left side								
	Cross rd-1		1	47.00	1.00	0.15	7.05		
	Cross rd-2		1	35.00	1.00	0.15	5.25		
	Cross rd-3		1	36.00	1.00	0.15	5.40		
	Cross rd-4		1	84.00	1.00	0.15	12.60		
	Right side								
	Cross rd-1		1	43.00	1.00	0.15	6.45		
	Cross rd-2		1	35.00	1.00	0.15	5.25		
	Masid Rd		1	212.00	1.00	0.15	31.80		
							1430.70	**1994.92**	**2854132.04**
15	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
	New Formation								
	Basavalingappanagar								
	Subbana Garden Rd								
	1st Main rd		1	128.00	8.00	0.23	235.52		
	At culvert		1	52.00	9.80	0.23	117.21		
	Main rd(Upto Culvert)		1	127.00	9.60	0.23	280.42		
	Doddabettahalli								
	Cross rd-1		1	23.00	5.40	0.23	28.57		
	Overlay cut portion								
	Basavalingappanagar								
	Subbana Garden Rd								
	2nd Main rd		2	173.00	2.20	0.23	175.08		
	Chikbettahalli Colony								
	Main rd		2	184.00	1.80	0.23	152.35		
	Doddabettahalli								
	3rd Cross rd		2	186.00	1.20	0.23	102.67		
	Scarifying Roads								
	Chikbettahalli Colony								
	Adityanagr								
	Connecting rd		1	55.00	4.50	0.23	56.93		
	Water Tank Rd(13th Main)		1	330.00	5.80	0.23	440.22		
	Doddabettahalli								

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
nnecting rd		1	80.00	6.10	0.23	112.24		
ıbhabhavani Temple Rd		1	430.00	5.70	0.23	563.73		
oss rd-2		1	16.00	6.00	0.23	22.08		
/d Rd		1	360.00	5.20	0.23	430.56		
						2717.57	**2001.28**	**5438608.48**
SRRB M500-6. Providing and **applying primer coat** with S.S. bitumen emulsion on prepared ırface of granular base such as WMM including cleaning of road surface and spraying primer at ıe rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 01-07-2020								
Basic rate	28.00							
Area Weightage 6%	1.68							
Total	**29.68**							
	Sqm							
New Formation								
Basavalingappanagar								
Subbana Garden Rd								
1st Main rd		1	128.00	8.00		1024.00		
At culvert		1	52.00	9.80		509.60		
Main rd(Upto Culvert)		1	127.00	9.60		1219.20		
Doddabettahalli								
Cross rd-1		1	23.00	5.40		124.20		
Overlay cut portion								
Basavalingappanagar								
Subbana Garden Rd								
2nd Main rd		2	173.00	2.20		761.20		
Chikbettahalli Colony								
Main rd		2	184.00	1.80		662.40		
Doddabettahalli								
3rd Cross rd		2	186.00	1.20		446.40		
Scarifying Roads								
Chikbettahalli Colony								
Adityanagr								
Connecting rd		1	55.00	4.50		247.50		
Water Tank Rd(13th Main)		1	330.00	5.80		1914.00		
Doddabettahalli								
Connecting rd		1	80.00	6.10		488.00		
Ambhabhavani Temple Rd		1	430.00	5.70		2451.00		
Cross rd-2		1	16.00	6.00		96.00		
Swd Rd		1	360.00	5.20		1872.00		
						11815.50	**29.68**	**350684.04**
17 KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.(P.No-158,I No-21.2), issue rate dated 01-07-2020								
Basic rate	5.00							
Area Weightage 6%	0.30							
Total	**5.30**							
	Sqm					1887.10		
TC- PC area						**1887.10**	**5.30**	**10,001.63**

on of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
/. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the ıck topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray ıg cleaning of road surface) including cost of all materials, labour, HOM complete as ıtions (P.No-161,I No-21.7) issue rate dated 01-07-2020								
Basic rate	12.00							
ea Weightage 6%	0.72							
Total	**12.72**							
	Sqm							
ation								
gappanagar								
Garden Rd								
rd		1	128.00	8.00		1024.00		
t		1	52.00	9.80		509.60		
Upto Culvert)		1	127.00	9.60		1219.20		
ettahalli								
-1		1	23.00	5.40		124.20		
cut portion								
ingappanagar								
a Garden Rd								
ain rd		1	173.00	9.10		1574.30		
ttahalli Colony								
d		1	184.00	6.00		1104.00		
abettahalli								
ross rd		1	186.00	5.80		1078.80		
fying Roads								
bettahalli Colony								
yanagr								
necting rd		1	55.00	4.50		247.50		
ter Tank Rd(13th Main)		1	330.00	5.80		1914.00		
ddabettahalli								
nnecting rd		1	80.00	6.10		488.00		
bhabhavani Temple Rd		1	430.00	5.70		2451.00		
oss rd-2		1	16.00	6.00		96.00		
vd Rd		1	360.00	5.20		1872.00		
						13702.60	**12.72**	**174297.07**
SRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed ggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting he hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6), issue rate dated 01-07-2020								
Basic rate	6045.00							
Area Weightage 6%	362.70							
Total	**6407.70**							
	Cum							
New Formation								
Basavalingappanagar								
Subbana Garden Rd								
1st Main rd		1	128.00	8.00	0.05	51.20		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	At culvert								
	Main rd(Upto Culvert)		1	52.00	9.80	0.05	25.48		
	Doddabettahalli		1	127.00	9.60	0.05	60.96		
	Cross rd-1								
	Overlay cut portion		1	23.00	5.40	0.05	6.21		
	Basavalingappanagar								
	Subbana Garden Rd								
	2nd Main rd								
	Chikbettahalli Colony		2	173.00	2.20	0.05	38.06		
	Main rd								
	Doddabettahalli		2	184.00	1.80	0.05	33.12		
	3rd Cross rd								
	Scarifying Roads		2	186.00	1.20	0.05	22.32		
	Chikbettahalli Colony								
	Adityanagr								
	Connecting rd		1	55.00	4.50	0.05	12.38		
	Water Tank Rd(13th Main)		1	330.00	5.80	0.05	95.70		
	Doddabettahalli								
	Connecting rd		1	80.00	6.10	0.05	24.40		
	Ambhabhavani Temple Rd		1	430.00	5.70	0.05	122.55		
	Cross rd-2		1	16.00	6.00	0.05	4.80		
	Swd Rd		1	360.00	5.20	0.05	93.60		
	Profile correction, 25%		0.25	1887.10		0.05	23.59		
							614.36	**6407.70**	**3936658.60**
20	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12), issue rate dated 01-07-2020								
	Basic rate	7111.00							
	Area Weightage 6%	426.66							
	Total	**7537.66**							
		Cum							
	New Formation								
	Basavalingappanagar								
	Subbana Garden Rd								
	1st Main rd		1	128.00	8.00	0.04	40.96		
	At culvert		1	52.00	9.80	0.04	20.38		
	Main rd(Upto Culvert)		1	127.00	9.60	0.04	48.77		
	Doddabettahalli								
	Cross rd-1		1	23.00	5.40	0.03	3.73		
	Overlay cut portion								
	Basavalingappanagar								
	Subbana Garden Rd								
	2nd Main rd		1	173.00	9.10	0.04	62.97		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Chikbettahalli Colony								
	Main rd								
	Doddabettahalli		1	184.00	6.00	0.04	44.16		
	3rd Cross rd								
	Scarifying Roads		1	186.00	5.80	0.04	43.15		
	Chikbettahalli Colony								
	Adityanagr								
	Connecting rd								
	Water Tank Rd(13th Main)		1	55.00	4.50	0.03	7.43		
	Doddabettahalli		1	330.00	5.80	0.03	57.42		
	Connecting rd								
	Ambhabhavani Temple Rd		1	80.00	6.10	0.04	19.52		
	Cross rd-2		1	430.00	5.70	0.04	98.04		
	Swd Rd		1	16.00	6.00	0.03	2.88		
			1	360.00	5.20	0.03	56.16		
							505.57	**7537.66**	**3810792.15**
21	KSRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 6%	25.74							
	Total	**454.74**							
		Sqm							
	Basavalingappanagar								
	Subbana Garden Rd								
	1st Main rd		2.5	128.00	0.10		32.00		
	At culvert		2.5	52.00	0.10		13.00		
	Main rd(Upto Culvert)		2.5	127.00	0.10		31.75		
	Doddabettahalli								
	Cross rd-1		2	23.00	0.10		4.60		
	Basavalingappanagar								
	Subbana Garden Rd								
	2nd Main rd		2.5	173.00	0.10		43.25		
	Chikbettahalli Colony								
	Main rd		2	184.00	0.10		36.80		
	Doddabettahalli								
	3rd Cross rd		2	186.00	0.10		37.20		
	5th Main 4th Cross rd		2	36.00	0.10		7.20		
	Chikbettahalli Colony								
	Adityanagr								
	Connecting rd		2	50.00	0.10		10.00		
	Water Tank Rd(13th Main)		2	330.00	0.10		66.00		
	Doddabettahalli								
	Connecting rd		2	80.00	0.10		16.00		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
habhavani Temple Rd		2	410.00	0.10		82.00		
Rd		2	350.00	0.10		70.00		
						449.80	**454.74**	**204542.05**

RB M800-35. **Supply and Installtion of Moulded Shank Raised Pavement Markers** made of carbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with ro prismatic lens capable of providing total internal reflection of the light entering the lens face shall support a load of 16000 kg tested in accordance to Specifications of Category A of RTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length ll not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on h side and the slope to the base shall be 35 degree. The strength of detachment of the egrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) m the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's commendation and complete as directed by the engineer.(P.No-187,I No-24.41)

Basic rate	337.00							
Area Weightage 6%	20.22							
Total	**357.22**							
	Nos							
asavalingappanagar								
ubbana Garden Rd								
st Main rd		3	18.00			54.00		
t culvert		3	7.00			21.00		
Main rd(Upto Culvert)		3	18.00			54.00		
oddabettahalli								
Cross rd-1		2	3.00			6.00		
Nasavalingappanagar								
ubbana Garden Rd								
2nd Main rd		3	24.00			72.00		
Chikbettahalli Colony								
Main rd		2	26.00			52.00		
Doddabettahalli								
3rd Cross rd		2	26.00			52.00		
Chikbettahalli Colony								
Adityanagr								
Connecting rd		2	7.00			14.00		
Water Tank Rd(13th Main)		2	40.00			80.00		
Doddabettahalli								
Connecting rd		2	11.00			22.00		
Ambhabhavani Temple Rd		2	55.00			110.00		
Cross rd-2		2	8.00			16.00		
Swd Rd		2	51.00			102.00		
						655.00	**357.22**	**233979.10**

KSRRB M200-24. **Dismantling of cement concrete pavement** by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. Loading and unloading with 4km lead= (I No-18.47,P No-140,KPWD SR 2018-19)

Basic rate	899.00							
Area Weightage 6%	53.94							
4km Lead	10.24							

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Total	963.18							
	Cum							
C.C Road								
Basavalingappanagar								
Main rd(Dead end)								
Chikbettahalli Colony		1	65.00	6.00	0.20	78.00		
Left side								
Cross rd-1								
Cross rd-2		1	47.00	4.00	0.20	37.60		
Cross rd-3		1	35.00	3.50	0.20	24.50		
Cross rd-4		1	36.00	4.20	0.20	30.24		
Right side		1	84.00	3.50	0.20	58.80		
Cross rd-1								
Cross rd-2		1	43.00	4.50	0.20	38.70		
Masid Rd		1	35.00	3.20	0.20	22.40		
		1	212.00	4.30	0.20	182.32		
						472.56	963.18	455160.34
Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to(P.No-176,I No-22.6.1)								
Basic rate	4916.00							
Area Weightage 6%	294.96							
Total	**5210.96**							
	Cum							
C.C Road								
Basavalingappanagar								
Main rd(Dead end)		1	65.00	6.00	0.15	58.50		
Chikbettahalli Colony								
Left side								
Cross rd-1		1	47.00	4.00	0.15	28.20		
Cross rd-2		1	35.00	3.50	0.15	18.38		
Cross rd-3		1	36.00	4.20	0.15	22.68		
Cross rd-4		1	84.00	3.50	0.15	44.10		
Right side								
Cross rd-1		1	43.00	4.50	0.15	29.03		
Cross rd-2		1	35.00	3.20	0.15	16.80		
Masid Rd		1	212.00	4.30	0.15	136.74		
Chikbettahalli Colony								
Cross rd-5		1	37.00	3.40	0.15	18.87		
Adityanagr								
14th Main Rd		1	290.00	3.80	0.15	165.30		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
						538.59	5210.96	2806570.95
							Total Construction Cost	33507862.21
							Towards GST 12%	4020943.46
							Towards Tender Premium 5%	1675393.11
							DPR & PMC Charges 2%	795000.00
							Sub Total	39999198.78
							Miscellaneous & Rounding Off	801.22
							Total	40000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 01-07-2020 and Data Rates

Assistant Engineer
Ward 03
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

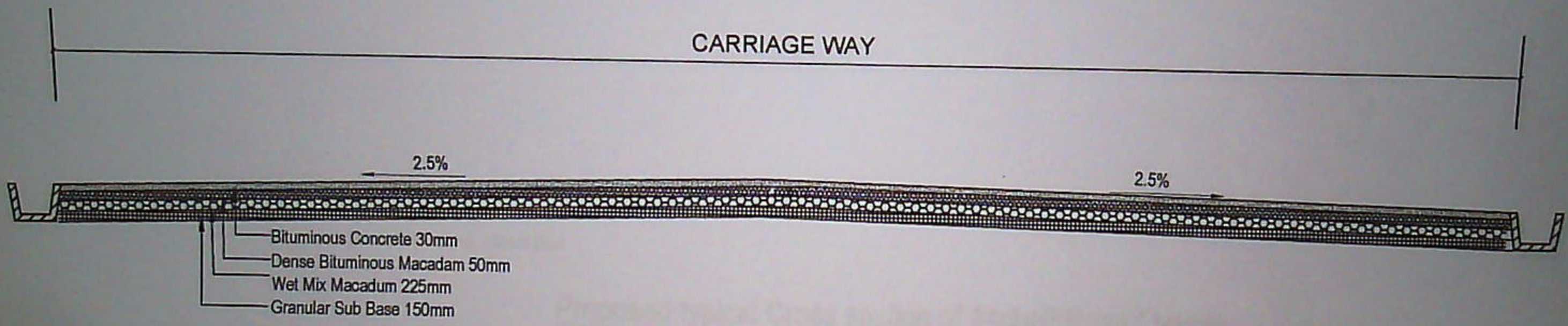
Executive Engineer
Yelahanka Division
BBMP Bangalore

Technical Sanction for Rs. RS 400 lakhs only
Accorded
Head of A/C P 3802
CER NO : 63

TA

Administrative Sanction for Rs. 400.00 lakhs
[Rupees Four Crores only]
.....
is accorded under head P-3802
Development of SC.ST areas in
Ward No 03
Registered as CE No. 79 Subject
to conditions contained in enclosed memo
No. BBMP/EE/YNTS/AS/79/2020-21 Dt. 7/1/2020

Executive Engineer



Proposed typical Cross section of Asphalt Road

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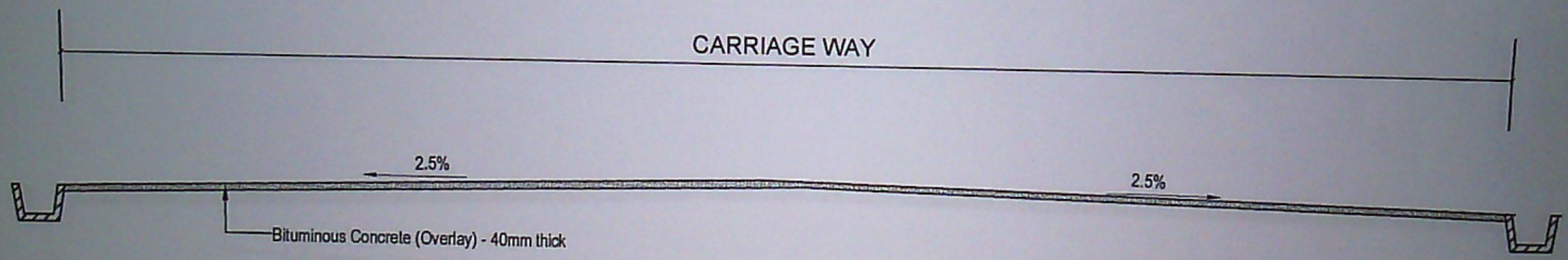
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೮



Proposed typical Cross section of Asphalt Road Overlay

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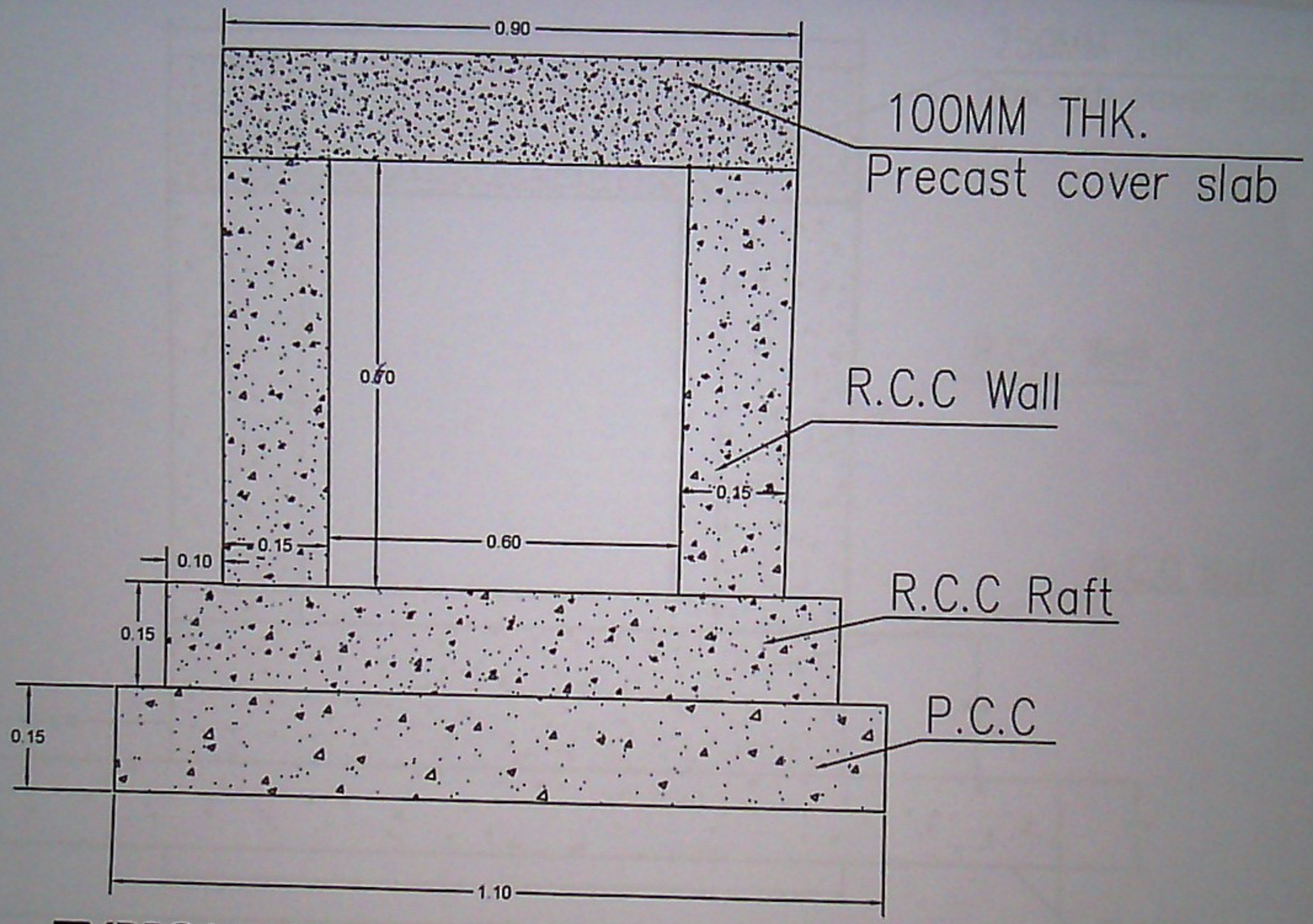
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಡಬ್ಲ್ಯು.ಎಸ್.ಎಸ್.ಬಿ. ಬೆಂಗಳೂರು-106

Proposed typical Cross section of Concrete Road

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಡಿ.ಎ.ಪ್ರ. ಬೆಂಗಳೂರು-೧೦೮



TYPICAL CROSS SECTION OF DRAIN

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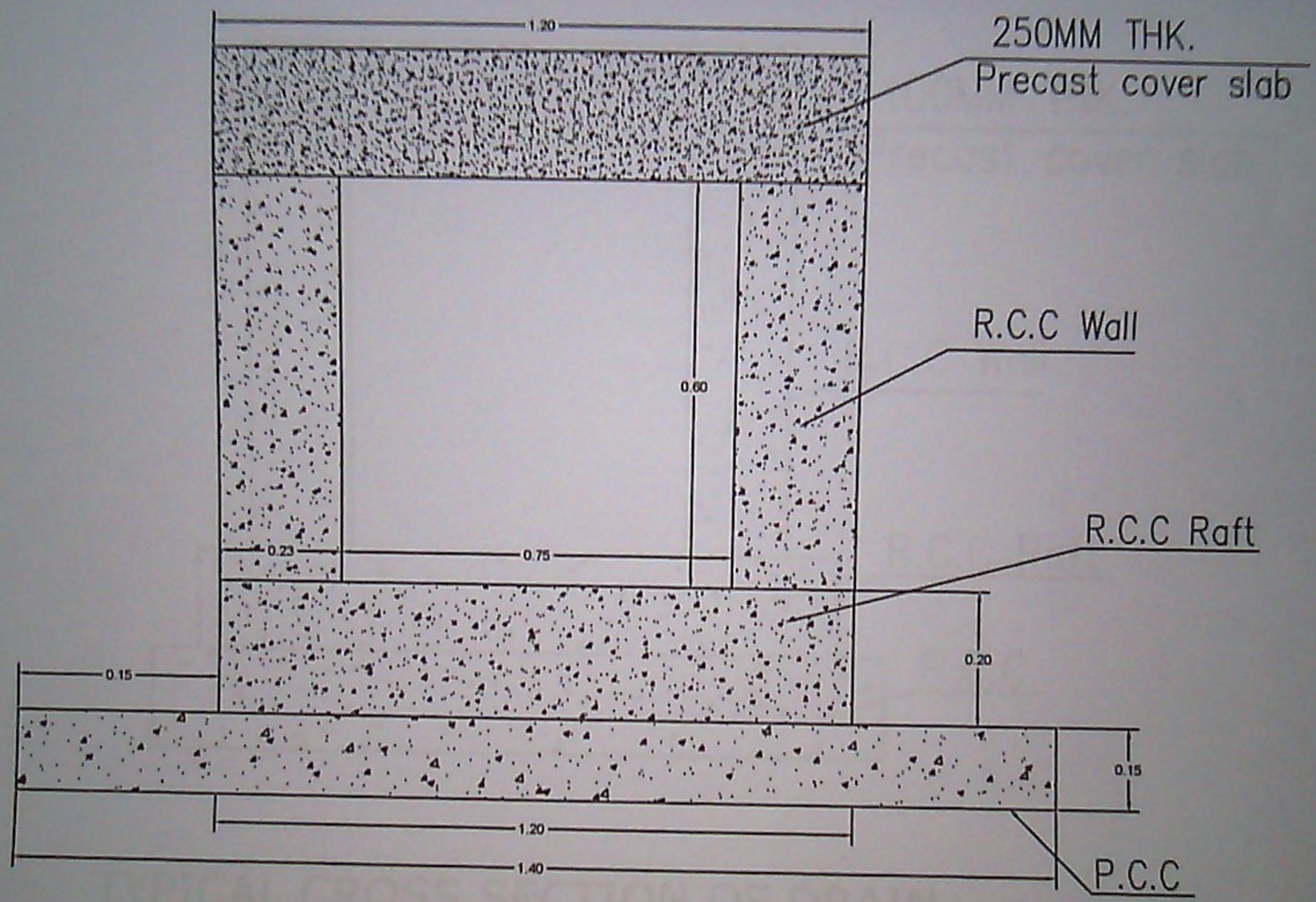
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಕ.ಜ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-10



TYPICAL CROSS SECTION OF CULVERT

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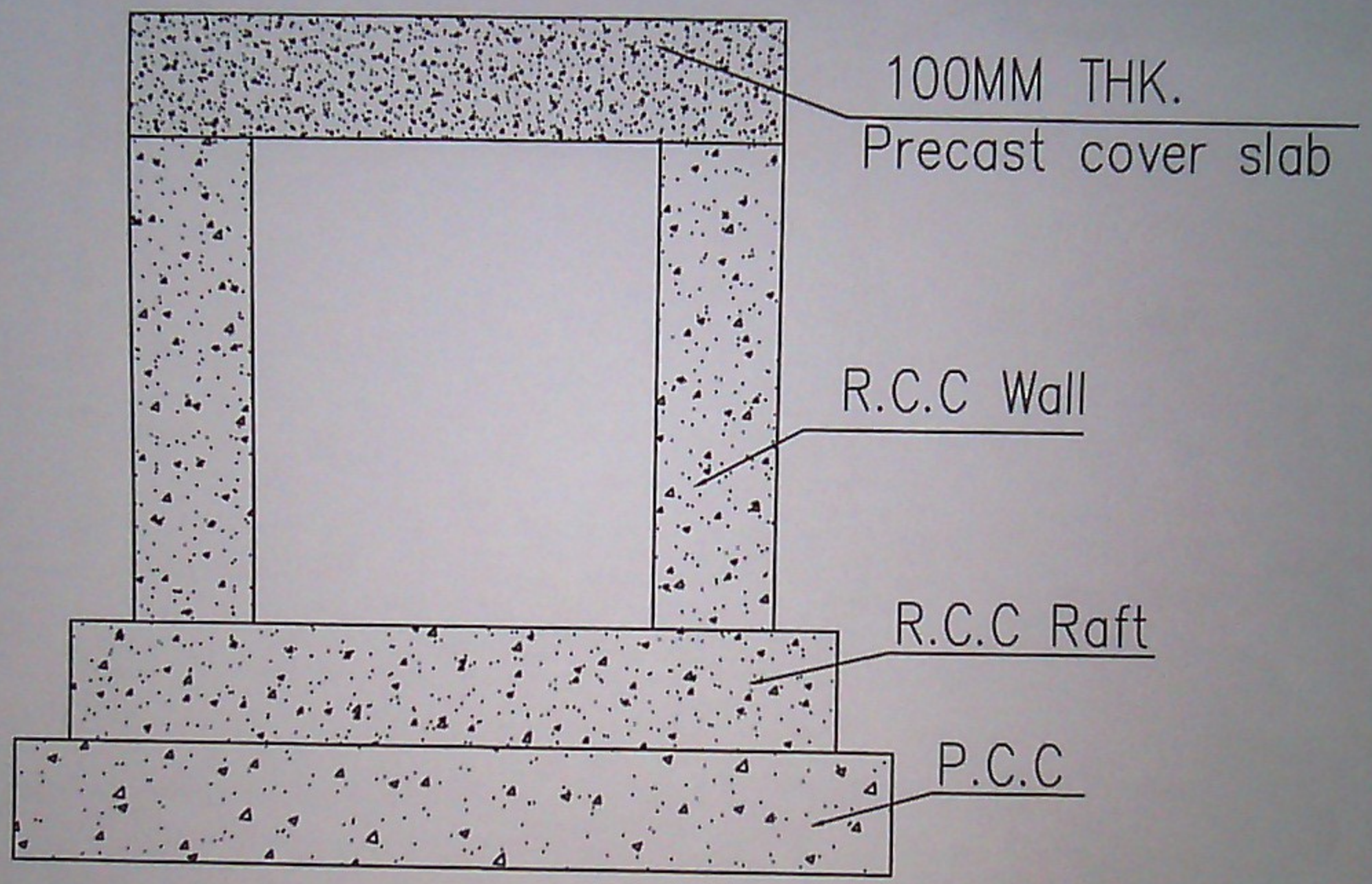

TYPICAL CROSS SECTION OF DRAIN

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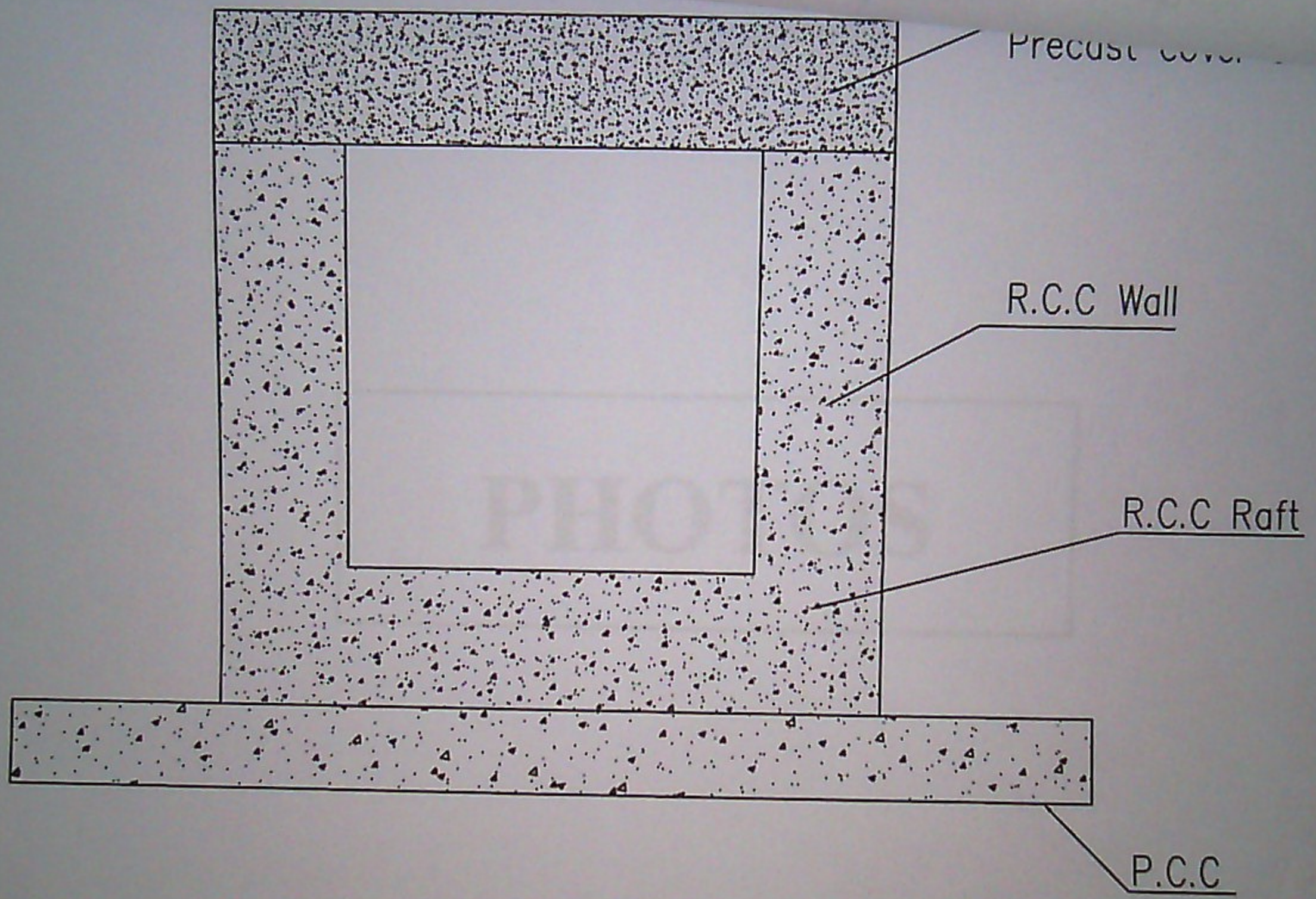
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಡಬ್ಲ್ಯು.ಎಸ್.ಎಸ್.ಬಿ. ಬೆಂಗಳೂರು-109



TYPICAL CROSS SECTION OF CULVERT

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಉಪವಿಭಾಗ.